

	Appl.	No.	09/	827,	440
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3	boost converting and power factor correcting an ac
<b>4</b> .	input signal to a second ac signal; and
5	changing the second ac signal into a third signal
6	having a current suitable for welding, cutting or heating

36. (Amended) The method of claim 34 further including providing control signals to a converter.

1 42. (Amended) The apparatus of claim 41, wherein the output means includes a pulse width modulator. 2

1 45. (Amended) A weldment or metal cut formed by a 2 process which comprises: boost converting and power factor correcting an ac 3 input signal to a second ac signal; and 5 changing the second ac signal into a third signal having a current suitable for welding or cutting. 6